

CLAIMS

1. An electrode brain probe assembly,
comprising:

- 5 a) a polymeric layer;
 b) a set of electrical contacts and
 conductors on said polymeric layer; and
 c) said electrode brain probe assembly having
10 a distal end, and being greater than 5 mm
 long, less than 5 mm wide and less than
 1 mm thick.

2. The assembly of claim 1 further being pointed
at said distal end.

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3. The assembly of claim 1 further defining a
through hole at said distal end, thereby permitting the
use of a placement device to push said bio-probe into
delicate soft tissue, such as brain tissue.

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4. The assembly of claim 1 wherein said flexible
polymer substrate is comprised of a layer of polyether
sulfone.

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5. The assembly of claim 1 wherein said flexible
polymer substrate is comprised of a layer of polyimide.

6. The assembly of claim 1 wherein said
conductive material is a metal.

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7. The assembly of claim 1 wherein said
conductive material is a conductive polymer.

8. The assembly of claim 1 wherein said flexible polymer substrate is comprised of a layer of liquid crystal polymer.